resumption exception having an associated exit handler, the exit handler programmed to restore the context saved by a corresponding execution of the entry handler.

Cont C1

scheduling concurrent threads of control by the operating system, each thread having an associated context, the association between a thread and a set of computer resources of the associated context being maintained by the operating system;

on detecting a specified entry to the operating system from an interrupted thread of the computer, raising and servicing the entry exception; and

on detecting a complementary resumption, raising and servicing the resumption exception, and returning control to the interrupted thread;

the entry exception, resumption exception, entry handler, and exit handler being cooperatively designed to maintain an association between one of the threads and an extended context of the thread through a context change induced by the operating system, the extended context including resources of the computer associated with the thread beyond those resources whose association with the thread is maintained by the operating system.

5. (amended) A method, comprising:

C2

scheduling concurrent threads of control by a pre-existing thread scheduler of a computer, each thread having an associated context, an association between a thread and a set of computer resources of the associated context being maintained by the thread scheduler; and

without modifying the thread scheduler, maintaining an association between one of the threads and an extended context of the thread through a context change induced by the thread scheduler, the extended context including resources of the computer associated with the thread beyond those resources whose association with the thread is maintained by the thread scheduler.

57. (amended) The method of claim 56, further comprising:

C3

scheduling concurrent threads of control by the operating system, each thread having an associated context, an association between a thread and a set of computer resources of the associated context being maintained by the operating system; and

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